

NEWS 15 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 17 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 18 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19 FEB 26 MEDLINE reloaded with enhancements
NEWS 20 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 21 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 22 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23 FEB 26 CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 24 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25 MAR 16 CASREACT coverage extended
NEWS 26 MAR 20 MARPAT now updated daily

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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=> file req

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8
DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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=>

Executing the logoff script...

=> LOG Y

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * *

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NEWS 4 DEC 18 CA/CAplus patent kind codes updated
NEWS 5 DEC 18 MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 6 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 7 DEC 27 CA/CAplus enhanced with more pre-1907 records
NEWS 8 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9 JAN 16 CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 11 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12 JAN 22 CA/CAplus updated with revised CAS roles
NEWS 13 JAN 22 CA/CAplus enhanced with patent applications from India
NEWS 14 JAN 29 PHAR reloaded with new search and display fields
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=> s KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLGKKGIEKNLGIGKVSS
/SQSP
L1 25 KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLGKKGIEKNLGIGKVSS
/SQSP

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FILE COVERS 1907 - 21 Mar 2007 VOL 146 ISS 13
FILE LAST UPDATED: 20 Mar 2007 (20070320/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s 11
L2 20 L1

=> s 12 not py>2002
5053689 PY>2002
L3 2 L2 NOT PY>2002

=> d ibib kwic 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:18945 CAPLUS
DOCUMENT NUMBER: 138:67676
TITLE: Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
AUTHOR(S): Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica; Helton, Erin; Ketteman, Mark; Madan, Anuradha; Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle; Madan, Anup; Young, Alice C.; Shevchenko, Yuriy; Bouffard, Gerard G.; Blakesley, Robert W.; Touchman, Jeffrey W.; Green, Eric D.; Dickson, Mark C.; Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy; Myers, Richard M.; Butterfield, Yaron S. N.; Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane E.; Schnurch, Angelique; Schein, Jacqueline E.; Jones, Steven J. M.; Marra, Marco A.
CORPORATE SOURCE: National Cancer Institute, NIH, Bethesda, MD, 20892-2580, USA
SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2002), 99(26), 16899-16903
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

| | | | | | |
|----|-------------|-------------|-------------|-------------|------------------|
| IT | 480737-29-9 | 480737-30-2 | 480737-31-3 | 480737-32-4 | 480737-33-5 |
| | 480737-34-6 | 480737-35-7 | 480737-36-8 | 480737-38-0 | 480737-39-1 |
| | 480737-40-4 | 480737-41-5 | 480737-42-6 | 480737-43-7 | 480737-44-8 |
| | 480737-46-0 | 480737-47-1 | 480737-48-2 | 480737-49-3 | 480737-50-6 |
| | 480737-51-7 | 480737-52-8 | 480737-53-9 | 480737-54-0 | 480737-55-1 |
| | 480737-56-2 | 480737-57-3 | 480737-58-4 | 480737-60-8 | 480737-61-9 |
| | 480737-62-0 | 480737-63-1 | 480737-64-2 | 480737-65-3 | 480737-66-4 |
| | 480737-67-5 | 480737-68-6 | 480737-69-7 | 480737-71-1 | 480737-72-2 |
| | 480737-74-4 | 480737-75-5 | 480737-76-6 | 480737-77-7 | 480737-78-8 |
| | 480737-79-9 | 480737-80-2 | 480737-81-3 | 480737-82-4 | 480737-83-5 |
| | 480737-84-6 | 480737-85-7 | 480737-86-8 | 480737-87-9 | 480737-89-1 |
| | 480737-90-4 | 480737-91-5 | 480737-92-6 | 480737-93-7 | 480737-94-8 |
| | 480737-95-9 | 480737-96-0 | 480737-97-1 | 480737-98-2 | 480737-99-3 |
| | 480738-00-9 | 480738-01-0 | 480738-02-1 | 480738-03-2 | 480738-04-3 |
| | 480738-05-4 | 480738-06-5 | 480738-07-6 | 480738-08-7 | 480738-09-8 |
| | 480738-10-1 | 480738-11-2 | 480738-12-3 | 480738-13-4 | 480738-14-5 |
| | 480738-15-6 | 480738-16-7 | 480738-17-8 | 480738-18-9 | 480738-19-0 |
| | 480738-20-3 | 480738-21-4 | 480738-22-5 | 480738-23-6 | 480738-24-7 |
| | 480738-25-8 | 480738-26-9 | 480738-27-0 | 480738-29-2 | 480738-30-5 |
| | 480738-31-6 | 480738-35-0 | 480738-37-2 | 480738-38-3 | GenBank AAH02325 |
| | 480738-39-4 | 480738-40-7 | 480738-42-9 | 480738-44-1 | 480738-45-2 |
| | 480738-46-3 | 480738-47-4 | 480738-49-6 | 480738-50-9 | 480738-51-0 |
| | 480738-52-1 | 480738-53-2 | 480738-54-3 | 480738-55-4 | 480738-56-5 |
| | 480738-57-6 | 480738-58-7 | 480738-59-8 | 480738-60-1 | 480738-61-2 |
| | 480738-62-3 | 480738-63-4 | 480738-64-5 | 480738-65-6 | 480738-66-7 |
| | 480738-67-8 | 480738-68-9 | 480738-69-0 | 480738-70-3 | 480738-71-4 |
| | 480738-72-5 | 480738-73-6 | 480738-74-7 | 480738-75-8 | 480738-76-9 |
| | 480738-77-0 | 480738-78-1 | 480738-79-2 | 480738-80-5 | 480738-81-6 |
| | 480738-82-7 | 480738-83-8 | 480738-84-9 | 480738-85-0 | 480738-87-2 |
| | 480738-88-3 | 480738-89-4 | 480738-90-7 | 480738-91-8 | 480738-92-9 |
| | 480738-93-0 | 480738-94-1 | 480738-95-2 | 480738-96-3 | 480738-97-4 |
| | 480738-98-5 | 480738-99-6 | 480739-00-2 | 480739-01-3 | 480739-02-4 |
| | 480739-03-5 | 480739-04-6 | 480739-05-7 | 480739-06-8 | 480739-07-9 |
| | 480739-08-0 | 480739-09-1 | 480739-10-4 | 480739-11-5 | 480739-12-6 |
| | 480739-13-7 | 480739-14-8 | 480739-15-9 | 480739-16-0 | 480739-17-1 |
| | 480739-18-2 | 480739-19-3 | 480739-20-6 | 480739-21-7 | 480739-22-8 |
| | 480739-23-9 | 480739-24-0 | 480739-25-1 | 480739-26-2 | 480739-27-3 |
| | 480739-28-4 | 480739-29-5 | 480739-30-8 | 480739-32-0 | 480739-33-1 |
| | 480739-34-2 | 480739-35-3 | 480739-36-4 | 480739-37-5 | 480739-38-6 |
| | 480739-39-7 | 480739-40-0 | 480739-41-1 | 480739-42-2 | 480739-43-3 |
| | 480739-44-4 | 480739-45-5 | 480739-46-6 | 480739-47-7 | 480739-48-8 |
| | 480739-49-9 | 480739-50-2 | 480739-52-4 | 480739-53-5 | 480739-54-6 |
| | 480739-55-7 | 480739-56-8 | 480739-57-9 | 480739-59-1 | 480739-60-4 |
| | 480739-61-5 | 480739-62-6 | 480739-63-7 | 480739-64-8 | 480739-65-9 |
| | 480739-66-0 | 480739-67-1 | 480739-68-2 | 480739-69-3 | 480739-70-6 |
| | 480739-71-7 | 480739-72-8 | 480739-73-9 | 480739-74-0 | 480739-75-1 |
| | 480739-76-2 | 480739-77-3 | 480739-78-4 | 480739-79-5 | 480739-80-8 |
| | 480739-81-9 | 480739-82-0 | 480739-83-1 | | |

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; generation and initial anal. of more than 15,000 full-length human and mouse cDNA sequences)

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:592185 CAPLUS

DOCUMENT NUMBER: 135:177271

TITLE: Cloning, sequencing and therapeutic use of human mitochondrial malate dehydrogenase

INVENTOR(S): Bandman, Olga; Corley, Neil C.; Shah, Purvi

PATENT ASSIGNEE(S): Incyte Genomics, Inc., USA

SOURCE: U.S., 34 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|---|---|-----------------|-------------|
| US 6274138 | B1 | 20010814 | US 1997-922957 | 19970903 |
| US 2002086006 | A1 | 20020704 | US 2001-915694 | 20010725 |
| PRIORITY APPLN. INFO.: | | | US 1997-922957 | A3 19970903 |
| REFERENCE COUNT: | 15 | THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |
| IT | 354641-72-8DP, subfragments are claimed | | | |
| RL: | BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) | | | |
| | (amino acid sequence; cloning, sequencing and therapeutic use of human mitochondrial malate dehydrogenase) | | | |

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 6.46 | 36.47 |

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=> S 354641-72-8/RN

L4 1 354641-72-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L4 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 354641-72-8 REGISTRY
CN Dehydrogenase, malate (human Incyte clone 11587 mitochondria-associated)
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: US6274138 SEQID: 1 claimed protein
FS PROTEIN SEQUENCE
SQL 338

PATENT ANNOTATIONS (PNTE):

| | |
|-------------|-----------|
| Sequence | Patent |
| Source | Reference |
| =====+===== | |
| Not Given | US6274138 |
| | claimed |
| | SEQID 1 |

SEQ 1 MLSALARPAS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
51 SRSLTYDIAH TPGBAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
101 GVPBKPGMTR DDLFNTNATI VATLTAACAO HCPEAMICVI ANPVNSTIPI
151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAEALKGLDPA RVNVPVIGGH
201 AGKTIPIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 12:16:16 ON 21 MAR 2007)

FILE 'REGISTRY' ENTERED AT 12:16:24 ON 21 MAR 2007
L1 25 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLGKKGI

FILE 'CAPLUS' ENTERED AT 12:16:48 ON 21 MAR 2007
L2 20 S L1
L3 2 S L2 NOT PY>2002

FILE 'REGISTRY' ENTERED AT 12:18:33 ON 21 MAR 2007
L4 1 S 354641-72-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

=> s 14 adn 11
MISSING OPERATOR

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=> s 14 and 11  
L5      1 L4 AND L1  
  
=> d sql  
  
L5  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN  
SQL  338  
  
=> d seq  
  
L5  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN  
  
SEQ      1 MLSALARPA AALRRSFSTS AQNNAKVAL GASGGIGQPL SLLLKNSPV  
      51 SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA  
      101 GVRPKPGMTR DDLFNTNTI VATLTAACAO HCPEAMICVI ANPVNSTIPI  
      151 TAEVFKKHG VNPNKIFGVT TLDIVRANTF VAEKLGLDPA RVNVPVIGGH  
      201 AGKTIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS  
      == =====  
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      ===== ===== ===== ===== ===== =====  
      301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK  
      =====  
HITS AT:  239-310
```

RELATED SEQUENCES AVAILABLE WITH SEQLINK

```
=>  
---Logging off of STN---
```

```
=>  
Executing the logoff script...
```

```
=> LOG Y  
  
COST IN U.S. DOLLARS          SINCE FILE      TOTAL  
                                ENTRY SESSION  
FULL ESTIMATED COST          15.27    51.74  
  
STN INTERNATIONAL LOGOFF AT 12:22:30 ON 21 MAR 2007
```

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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* * * * * * * * * * Welcome to STN International * * * * * * * * * * *  
NEWS 1           Web Page URLs for STN Seminar Schedule - N. America
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|------|----|--------|--|
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| NEWS | 4 | DEC 18 | CA/CAplus patent kind codes updated |
| NEWS | 5 | DEC 18 | MARPAT to CA/CAplus accession number crossover limit increased to 50,000 |
| NEWS | 6 | DEC 18 | MEDLINE updated in preparation for 2007 reload |
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| NEWS | 8 | JAN 08 | CHEMLIST enhanced with New Zealand Inventory of Chemicals |
| NEWS | 9 | JAN 16 | CA/CAplus Company Name Thesaurus enhanced and reloaded |
| NEWS | 10 | JAN 16 | IPC version 2007.01 thesaurus available on STN |
| NEWS | 11 | JAN 16 | WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data |
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| NEWS | 13 | JAN 22 | CA/CAplus enhanced with patent applications from India |
| NEWS | 14 | JAN 29 | PHAR reloaded with new search and display fields |
| NEWS | 15 | JAN 29 | CAS Registry Number crossover limit increased to 300,000 in multiple databases |
| NEWS | 16 | FEB 15 | PATDPASPAC enhanced with Drug Approval numbers |
| NEWS | 17 | FEB 15 | RUSSIAPAT enhanced with pre-1994 records |
| NEWS | 18 | FEB 23 | KOREAPAT enhanced with IPC 8 features and functionality |
| NEWS | 19 | FEB 26 | MEDLINE reloaded with enhancements |
| NEWS | 20 | FEB 26 | EMBASE enhanced with Clinical Trial Number field |
| NEWS | 21 | FEB 26 | TOXCENTER enhanced with reloaded MEDLINE |
| NEWS | 22 | FEB 26 | IFICDB/IFIPAT/IFIUDB reloaded with enhancements |
| NEWS | 23 | FEB 26 | CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases |
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| NEWS | 25 | MAR 16 | CASREACT coverage extended |
| NEWS | 26 | MAR 20 | MARPAT now updated daily |

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | Welcome Banner and News Items |
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FULL ESTIMATED COST

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 0.21 | 0.21 |

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STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8
DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNL��KVSS/SASP
'SASP' IS NOT A VALID FIELD CODE
L1 0 KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
LGIGKVSS/SASP

=> s KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNL晶KVSS/SQsp
L2 25 KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
LGIGKVSS/SQSP

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 29.80 30.01

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FILE COVERS 1907 - 21 Mar 2007 VOL 146 ISS 13
FILE LAST UPDATED: 20 Mar 2007 (20070320/ED)

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=> s 12
L3 20 L2

=> s 13 not py>2003
4002477 PY>2003
L4 3 L3 NOT PY>2003

=> d ibib 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:942764 CAPLUS
 DOCUMENT NUMBER: 140:3792
 TITLE: Genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics
 INVENTOR(S): Nevins, Joseph; West, Mike; Goldschmidt, Pascal
 PATENT ASSIGNEE(S): Duke University, USA
 SOURCE: PCT Int. Appl., 408 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2003091391 | A2 | 20031106 | WO 2002-XA38221 | 20021112 |
| W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| WO 2003091391 | A2 | 20031106 | WO 2002-US38221 | 20021112 |
| W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| PRIORITY APPLN. INFO.: | | | US 2002-374547P | P 20020423 |
| | | | US 2002-420784P | P 20021024 |
| | | | US 2002-421043P | P 20021025 |
| | | | US 2002-424680P | P 20021108 |
| | | | WO 2002-US38221 | A 20021112 |

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:18945 CAPLUS
 DOCUMENT NUMBER: 138:67676
 TITLE: Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
 AUTHOR(S): Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica

J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica;
 Helton, Erin; Ketteman, Mark; Madan, Anuradha;
 Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle;
 Madan, Anup; Young, Alice C.; Shevchenko, Yuriy;
 Bouffard, Gerard G.; Blakesley, Robert W.; Touchman,
 Jeffrey W.; Green, Eric D.; Dickson, Mark C.;
 Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy;
 Myers, Richard M.; Butterfield, Yaron S. N.;
 Krzywinski, Martin I.; Skalska, Ursula; Smilus, Duane
 E.; Schnurch, Angelique; Schein, Jacqueline E.; Jones,
 Steven J. M.; Marra, Marco A.
CORPORATE SOURCE: National Cancer Institute, NIH, Bethesda, MD,
 20892-2580, USA
SOURCE: Proceedings of the National Academy of Sciences of the
 United States of America (2002), 99(26), 16899-16903
CODEN: PNASA6; **ISSN:** 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:592185 CAPLUS
DOCUMENT NUMBER: 135:177271
TITLE: Cloning, sequencing and therapeutic use of human
 mitochondrial malate dehydrogenase
INVENTOR(S): Bandman, Olga; Corley, Neil C.; Shah, Purvi
PATENT ASSIGNEE(S): Incyte Genomics, Inc., USA
SOURCE: U.S., 34 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------|-----------|--|-----------------|-------------|
| US 6274138 | B1 | 20010814 | US 1997-922957 | 19970903 |
| US 2002086006 | A1 | 20020704 | US 2001-915694 | 20010725 |
| PRIORITY APPLN. INFO.: | | | US 1997-922957 | A3 19970903 |
| REFERENCE COUNT: | 15 | THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

=> d kwic 1

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
IT 480917-91-7 480917-95-1 480919-09-3 480919-29-7, CAGF28 (human)
 480919-95-7, Brachyury (human gene TBX1) 480919-98-0, Cbf5p (human cell
 line HeLa gene CBF5) 480919-99-1 480920-09-0, GenBank AAB94761
 480920-38-5, GenBank AAB96655 480920-71-6, Mad4 (human gene Mad4)
 480921-77-5, Complement component C2 (human gene C2) 480922-00-7,
 GenBank AAB99730 480922-06-3 480922-10-9, BC-2 protein (human)
 480922-11-0, Cyclophilin-33B (human gene CYP-33) 480922-49-4, Mucin
 (human gene MUC3) 480924-07-0 480924-12-7 480924-20-7,
 Transcription factor LZIP (human) 480924-63-8 480924-67-2
 480924-69-4, GenBank AAC05601 480924-79-6, SSX4 (human gene SSX4)
 480924-98-9 480926-14-5 480926-28-1 480926-38-3 480926-40-7
 480926-41-8 480926-42-9 480926-43-0 480927-06-8 480927-23-9
 480928-15-2, GenBank AAC15791 480928-16-3 480929-54-2 480929-55-3
 480929-66-6, Sorting nexin 2 (human gene SNX2) 480929-83-7 480929-92-8
 480931-06-4 480931-07-5 480931-08-6 480931-09-7 480931-79-1
 480932-16-9 480932-18-1 480932-19-2 480932-69-2, GenBank AAC26109
 480933-21-9 480933-35-5 480933-36-6 480933-45-7, PLE21 protein

(human gene ple21) 480933-46-8 480933-64-0, GenBank AAC28644
480934-15-4, Nucleoplasmin-3 (human gene NPM3) 480934-16-5,
Lysophospholipase (human gene LPL1) 480934-44-9, Protein (human gene
JH8) 480934-77-8, ATPase (human) 480934-93-8, GenBank AAC33132
480935-42-0, GenBank AAC34245 480935-86-2 480935-99-7, DNA repair
exonuclease (human gene REC1) 480936-36-5 480936-86-5, Cullin 1 (human
cell line HeLa) 480936-95-6, Molecular chaperone DnaJ (human)
480937-06-2, Protein (human gene NAP) 480937-27-7 480937-28-8
480937-37-9, Phosphomevalonate kinase (human) 480937-40-4 480938-12-3
480938-75-8, Kallistatin (human gene PI4) 480938-96-3 480938-99-6
480939-09-1, GenBank AAC41749 480939-14-8 480940-77-0, GenBank
AAC41930 480940-78-1, GenBank AAC41931 480940-88-3 480941-34-2
480941-37-5 480941-39-7 480941-43-3 480941-52-4, Trio isoform
(human) 480941-62-6 480941-63-7, P47 LBC oncogene (human clone 9a2)
480941-65-9 480942-01-6, SLP-76 (human) 480942-04-9 480942-30-1
480942-66-3 480942-70-9 480943-40-6 480943-41-7 480943-46-2
480943-51-9, Protein RGP4 (human) 480943-57-5 480943-68-8
480943-84-8 480944-02-3, Protein B (human cell line HT-1080)
480944-09-0, Metaxin (human gene MTX) 480944-41-0, Hs-CUL-1 (human gene
Hs-cul-1) 480944-46-5, BA46 (human) 480944-70-5 480944-71-6
480945-09-3 480945-16-2 480945-17-3, DNA polymerase gamma (human)
480945-22-0, STAM (human) 480945-23-1, LIM protein (human gene LPP)
480946-18-7, FUSE binding protein 3 (human gene FBP3) 480946-29-0,
GenBank AAC50955 480946-82-5 480947-84-0 480948-05-8, C2H2-150
(human) 480948-26-3, Uncoupling protein 3, UCP3S (human) 480948-28-5,
GenBank AAC51360 480948-30-9, Phosphomannomutase (human gene PMM2)
480950-82-1, Zinc finger protein (human clone PRD51) 480951-45-9, Dead
box, Y isoform (human gene DBY) 480951-46-0 480952-58-7 480953-12-6,
G-protein coupled receptor RE2 (human) 480953-60-4, Protein UP50 (human
urine) 480953-61-5, GenBank AAC62108 480953-69-3, GenBank AAC62428
480953-76-2 480953-89-7 480954-43-6 480954-51-6 480954-63-0,
Gamma2-adaptin (human gene G2AD) 480956-14-7, GenBank AAC70911
480956-29-4 480956-30-7, GenBank AAC72105 480956-35-2 480958-09-6,
Protein (human clone 559 125-amino acid) 480958-16-5, Protein (human
clone 638 198-amino acid) 480958-17-6, GenBank AAC72956 480958-22-3,
GenBank AAC72961 480958-31-4 480958-60-9, GenBank AAC79844
480959-13-5 481118-85-8 481122-86-5, AML1c protein (human gene AML1)
481122-88-7, AML1b protein (human gene AML1) 481123-11-9, VAMP5 (human)
481123-58-4 481123-89-1 481125-18-2 481125-24-0, GenBank AAD00702
481125-83-1, GenBank AAD01614 481126-46-9 481126-50-5, GenBank
AAD02203 481126-60-7 481126-75-4, GenBank AAD03161 481126-84-5, AP-3
complex sigma3A subunit (human) 481127-04-2 481128-89-6, GenBank
AAA66020 481128-90-9 481129-26-4 481129-29-7 481129-30-0
481129-37-7 481129-39-9 481129-47-9 481129-53-7 481129-54-8
481129-60-6, GenBank BAA34787 481130-03-4 481131-07-1, Protein (human
gene HRIHFB2157) 481131-19-5, Protein MD-1 (human) 481131-62-8
481131-82-2 481132-35-8 481132-38-1 481132-48-3 481132-99-4
481133-00-0, Fln29 (human gene fln29) 481133-01-1, GenBank BAA78640
481133-20-4, DEPP (human gene DEPP) 481133-61-3 481133-62-4
481133-70-4 481134-93-4 481134-94-5 481134-96-7 481135-07-3
481135-94-8 481136-83-8 481137-03-5, GenBank BAA06626 481137-13-7
481137-22-8 481137-23-9 481137-34-2, L-histidine decarboxylase (human)
481137-54-6 481137-57-9 481138-12-9 481138-14-1 481138-46-9
481138-47-0 481138-55-0 481138-69-6 481139-37-1 481139-85-9,
GenBank BAA07508 481140-37-8 481140-39-0, GenBank AAA70417
481140-83-4 481140-89-0, GenBank BAA05124 481140-98-1, 5'-Nucleotidase
(human) 481140-99-2 481141-09-7 481141-11-1 481141-13-3
481141-23-5 481141-28-0 481141-29-1 481141-52-0 481142-07-8,
PK-120 precursor (human) 481143-01-5, Sky (human cell line HepG2 gene
sky) 481143-06-0 481143-08-2 481143-10-6 481143-14-0 481143-35-5
481143-50-4 481143-52-6 481143-57-1 481143-61-7 481143-87-7, Human
rab GDI (human) 481144-86-9, Carbamyl phosphate synthetase I (human)
481144-91-6 481144-97-2, LIMK-2 (human clone limk-2) 481145-06-6,
Protein (human 349-amino acid) 481145-07-7 481145-28-2 481145-31-7,
Protein (human 384-amino acid)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; genes expressed in atherosclerotic tissue and
their use in diagnosis and pharmacogenetics)

=> FILE REGISTRY

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|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 6.36 | 36.37 |

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DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> S 480924-12-7/RN

L5 1 480924-12-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L5 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 480924-12-7 REGISTRY
CN Malate dehydrogenase precursor (human gene MDH) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1934: PN: WO03038130 FIGURE: 3 claimed protein
CN 2041: PN: WO03091391 TABLE: 20 unclaimed protein
CN 2376: PN: WO2004038376 TABLE: 5 unclaimed protein
CN 4009: PN: US20040009481 TABLE: 1 claimed protein
CN GenBank AAC03787
CN GenBank AAC03787 (Translated from: GenBank AF047470)
FS PROTEIN SEQUENCE
SQL 338

PATENT ANNOTATIONS (PNTE):

Sequence | Patent

Source | Reference

=====+=====

Not Given|WO2003038130

|claimed

|FIGURE 3

SEQ 1 MLSALARPV AALRRSFSTS AQNNAKVAL GASGGIGQPL SLLLKNPLV
51 SRLTLYDIAH TPVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
101 GVRPKPGMTR DDLFNTNATI VATLTAACAO HCPEAMICVI ANPVNSTIPI
151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAEALKGLDPA RVNVPVIGGH
201 AGKTIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKIE
301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF Unspecified

CI MAN

SR GenBank

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PRP (Properties)

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FILE 'REGISTRY' ENTERED AT 12:23:15 ON 21 MAR 2007

L1 0 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLGKKGI
L2 25 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLGKKGI

FILE 'CAPLUS' ENTERED AT 12:23:42 ON 21 MAR 2007

L3 20 S L2
L4 3 S L3 NOT PY>2003

FILE 'REGISTRY' ENTERED AT 12:24:24 ON 21 MAR 2007

L5 1 S 480924-12-7/RN
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SET NOTICE LOGIN DISPLAY

=> s 15 and 12

L6 1 L5 AND L2

=> d sql seq

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
SQL 338

SEQ 1 MLSALARPV AALRRSFSTS AQNNAKVAL GASGGIGQPL SLLLKNPLV
51 SRLTLYDIAH TPVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
101 GVRPKPGMTR DDLFNTNATI VATLTAACAO HCPEAMICVI ANPVNSTIPI
151 TAEVFKKHGV YNPNKIFGVT TLDIVRANTF VAEALKGLDPA RVNVPVIGGH
201 AGKTIPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS

== =====
251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
===== ===== ===== ===== =====
301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK
=====

HITS AT: 239-310

RELATED SEQUENCES AVAILABLE WITH SEQLINK

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 12.57 | 48.94 |

STN INTERNATIONAL LOGOFF AT 12:25:02 ON 21 MAR 2007

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 DEC 18 CA/CAplus pre-1967 chemical substance index entries enhanced
with preparation role
NEWS 4 DEC 18 CA/CAplus patent kind codes updated
NEWS 5 DEC 18 MARPAT to CA/CAplus accession number crossover limit increased
to 50,000
NEWS 6 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 7 DEC 27 CA/CAplus enhanced with more pre-1907 records
NEWS 8 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9 JAN 16 CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 11 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12 JAN 22 CA/CAplus updated with revised CAS roles
NEWS 13 JAN 22 CA/CAplus enhanced with patent applications from India
NEWS 14 JAN 29 PHAR reloaded with new search and display fields
NEWS 15 JAN 29 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
NEWS 16 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 17 FEB 15 RUSSIAPAT enhanced with pre-1994 records